

Food and Drug Administration
Center for Food Safety and Applied Nutrition
Office of Special Nutritionals

ARMS#

13127



8 - OTHER

000001

Rec'd 2/18
to DOB

AUTOPSY REPORT

BIRTH DATE	SEX/AGE F	RACE/ETHNIC	
DEATH 09/05/98	AUTOPSY 09/08/98 1:42 PM	INTERVAL 85 HRS 42 MIN	MEDICAL EXAMINER'S
MEDICAL EXAMINER ACCEPTED	PERMISSION	RESTRICTIONS HEART ONLY	REPORT DATE 09/28/98
PHYSICIAN: DR. [REDACTED]			
PROSECTOR: DR. [REDACTED]		STAFF: DR. [REDACTED]	
CONSULTANT: DR. [REDACTED]			

FINAL ANATOMIC DIAGNOSES

CONSULT HEART RECEIVED FROM THE MEDICAL EXAMINER'S OFFICE, [REDACTED]

MYXOMATOUS DEGENERATION OF MITRAL AND TRICUSPID VALVES

CARDIOMEGALY, MODERATE (Heart 590 grams)

Focal subendocardial and subepicardial interstitial and replacement fibrosis.

COMMENT:

The decedent was a 49 year old female with a history of endocarditis. She was on prophylactic Clindamycin for an alleged oral/dental procedure. There is a questionable history of arrhythmias.

The autopsy was performed at the Office of the Chief Medical Examiner in [REDACTED]. The heart weighed 590 grams. The autopsy was essentially negative. Samples were sent for routine toxicologic examination including for Depakote and Prozac. The toxicology results are pending.

The heart, received in consultation from the [REDACTED] is enlarged but has a normal external configuration. The coronary arteries were partially sectioned in situ prior to receipt. The coronary arteries exit the aorta in normal locations although the left ostium has a slightly oblique takeoff. The coronary artery system is right dominant. More extensive sectioning of the coronary arteries in situ reveals no atherosclerosis. On the epicardial surface

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FINAL ANATOMIC DIAGNOSES (cont'd)

of the anterior aspect of the right ventricle, there is a 4.5 x 2.5 cm. fibrous thickening consistent with a "soldier's plaque". Both atria and ventricles are dilated. No atrial septal or ventricular septal defects are present. The fossa ovalis is closed. No recent or remote infarctions are seen. The left ventricular free wall measures 1.2 cm. in thickness. The right ventricular free wall measures 0.2 cm. in thickness. The anterior leaflet of the tricuspid valve is thickened with mild hooding. There is marked thickening and hooding of both the anterior and posterior leaflets of the mitral valve. The changes are most marked in the posterior leaflet. There is high insertion of many of the chordae tendineae on the posterior leaflet and there is some thinning of the chordae tendineae. On the endocardial surface of the left ventricle, in an area corresponding to the chordae tendineae of the posterior leaflet of the mitral valve, there are linear areas of fibrous thickening. The aortic and pulmonary valves appear normal and are composed of three cusps.

Microscopic examination reveals myxomatous degeneration with focal fibrosis of the mitral and tricuspid valves. The primary process affecting both valves appears to be myxomatous degeneration. Although there is focal fibrosis, other features that would suggest a healed endocarditis, such as neovascularization, are not seen. Sections of myocardium reveal scattered foci of both interstitial and replacement fibrosis that are predominantly subendocardial but are also focally subepicardial. Moderate myocyte hypertrophy is present. No myofiber disarray, myocarditis or deposition disease is seen.

Sudden death has been associated with myxomatous degeneration of the cardiac valves, as well as with foci of myocardial fibrosis and with cardiomegaly. The cause of death in this case could be attributed to a cardiac origin with any one of these findings contributing to the patient's death.

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AUTOPSY SERVICE

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MICROSCOPIC DESCRIPTION

SLIDE KEY:

Representative sections are submitted as follows:

- 1: Mitral valve anterior leaflet (1), fibrous thickening.
- 2: Mitral valve posterior leaflet (2).
- 3: Tricuspid valve, anterior leaflet (1).
- 4: Right ventricle, lateral basal (1).
- 5: Right ventricle, lateral apical (1).
- 6: Left ventricle, basal, posterior (1).
- 7: Left ventricle, apical, anterior (1).

MICROSCOPIC DESCRIPTION:

Microscopic examination of the mitral and tricuspid valves reveals myxomatous degeneration with focal fibrosis. The primary process affecting both valves appears to be myxomatous degeneration. Although there is focal fibrosis, other features that would indicate a healed endocarditis, such as neovascularization, are not seen. Sections of myocardium reveal multiple foci of interstitial and replacement fibrosis that are predominantly subendocardial. A few subepicardial foci are also seen. Trichrome stain confirms the presence of fibrosis; Congo red stain is negative. Moderate myocyte hypertrophy is present. No myofiber disarray, deposition disease or myocarditis are seen.

KODACHROMES:

Heart, Tricuspid Valve, Mitral Valve

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AUTOPSY SERVICE

PAGE: 4

CLINICAL SUMMARY

SEE COMMENT (IN FINAL ANATOMIC DIAGNOSES SECTION).

[REDACTED] M.D.

PROSECTOR

Signed by 09/24/98

[REDACTED]
Signed by 09/28/98

-End of report-

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PAGE 1

RUN ON: 10/21/98 0905
RUN FOR: 10/07/98-10/21/98

TYPE OF REPORT:

Doctor Report

PATIENT:

MR#:

PHONE:

LOCATION

AGE

SEX

PHYSICIAN NAME

ACCOUNT #

STATUS

REC DATE

49

F

09/08/98

ADM COMMENTS:

SPEC #: STATUS: COLL: 09/08/98- RECD: 09/08/98-1450

ORDERED: CDAO, SOLVENT SCR, OTH, FLUOXETINE, VALPROIC ACID
COMMENTS: VALPROIC ACID, FLUOXETINE

Test	Result	Flag	Reference
> SPECIMEN TYPE	BLOOD		
	Fluoridated femoral		
> BARBITURATE SCREEN	None detected. This is the result of a qualitative immunoassay screening test for barbiturates. CUTOFF CONCENTRATION = 100 ng/mL Secobarbital		
> BARBITURATE CONFIRMATION	Test not performed		
> COCAINE METABOLITE SCREEN	None detected. This is the result of a qualitative immunoassay screening test for cocaine metabolites. CUTOFF CONCENTRATION = 100 ng/mL Benzoyllecgonine		
<u>COCAINE CONFIRMATION</u>			
> COCAINE METABOLITE CONFIRM	Test not performed		
> OPIATE GROUP SCREEN	None detected. This is the result of a qualitative immunoassay screening test for morphine/codeine. CUTOFF CONCENTRATION = 100 ng/mL Morphine		
<u>OPIATE CONFIRMATION</u>			
> OPIATE CONFIRMATION	Test not performed		
> TRICYCLIC ANTIDEPRESSANT SCREE	None detected. This is the result of a qualitative immunoassay screening test for tricyclic antidepressants. CUTOFF CONCENTRATION = 300 ng/mL Nortriptyline		
<u>TRICYCLIC ANTIDEPRESSANT CONF</u>			
> TRICYCLIC ANTIDEPRESSANT CONF	Test not performed		
> METHANOL	NON-DETECTABLE		gm%
> ETHANOL	NON-DETECTABLE		gm%
> ISOPROPANOL	NON-DETECTABLE		gm%
> ACETONE	NON-DETECTABLE		gm%

H = High L = Low N = Normal # = Delta

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PAGE 2

RUN ON: 10/21/98 0905
RUN FOR: 10/07/98-10/21/98

TYPE OF REPORT: Doctor Report

PATIENT:

MR#:

PHONE:

LOCATION

AGE

SEX

PHYSICIAN NAME

ACCOUNT #

STATUS

REG DATE

49

F

09/08/98

ADM COMMENTS:

SPEC#:

COLL: 09/08/98

(Continued)

Test	Result	Flag	Reference
> VALPROIC ACID	21	L	50-100 MCG/ML

Normal anti-epileptic range: 50 - 100 MCG/ML
Therapeutic range for the treatment of manic episodes
associated with bi-polar disorder: 50 - 125 MCG/ML

Test performed at

> FLUOXETINE	370	NG/ML
> NORFLUOXETINE	1000	NG/ML

Daily therapy with 40 MG fluoxetine/day: steady state
concentrations at 4 - 8 hours after dose range from 91 - 302
NG/ML fluoxetine and 72 - 258 NG/ML norfluoxetine.

Test performed at

SPEC #: STATUS: COLL: 09/08/98- RECD: 09/08/98-1450

ORDERED: CDAUF

COMMENTS: VALPROIC ACID, DEPAKOTE

Test	Result	Flag	Reference
> SPECIMEN TYPE	URINE		
> BARBITURATE SCREEN	None detected. This is the result of a qualitative immunassay screening test for barbiturates. CUTOFF CONCENTRATION = 200 ng/mL Secobarbital		
> BARBITURATE CONFIRMATION	Test not performed		
> COCAINE METABOLITE SCREEN	None detected. This is the result of a qualitative immunassay screening test for cocaine metabolites. CUTOFF CONCENTRATION = 300 ng/mL Benzoylcegonine		
> COCAINE METABOLITE CONFIRM	Test not performed		
> OPIATE GROUP SCREEN			

H = High L = Low N = Normal # = Delta

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000008

RUN ON: 10/21/98 0905
RUN FOR: 10/07/98-10/21/98

TYPE OF REPORT: Doctor Report

PATIENT: [REDACTED]

MR#:

PHONE:

LOCATION

AGE

SEX

PHYSICIAN NAME

ACCOUNT #

STATUS

REG DATE

49

F

09/08/98

ADM COMMENTS: [REDACTED]

SPEC#:

COLL: 09/08/98

(Continued)

Test	Result	Flag	Reference
> OPIATE CONFIRMATION	None detected. This is the result of a qualitative immunoassay screening test for morphine/codeine. CUTOFF CONCENTRATION = 300 ng/mL Morphine Test not performed		

SPEC #: [REDACTED] STATUS: [REDACTED] COLL: 09/08/98 RECD: 09/08/98-1450

ORDERED: CME HOLD

COMMENTS: VALPROIC ACID, FLUOXETINE

Test	Result	Flag	Reference
> SPECIMEN TYPE	BLOOD Fluoridated heart		

SPEC #: [REDACTED] STATUS: [REDACTED] COLL: 09/08/98 RECD: 09/08/98-1450

ORDERED: CME HOLD

COMMENTS: VALPROIC ACID, FLUOXETINE

Test	Result	Flag	Reference
> SPECIMEN TYPE	FLUID, OTHER VITREOUS		

H = High L = Low N = Normal # = Delta

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000009

RUN ON: 10/21/98 0905
RUN FOR: 10/07/98-10/21/98

TYPE OF REPORT: Doctor Report

PATIENT:

MR#:

PHONE:

LOCATION

AGE

SEX

PHYSICIAN NAME

ACCOUNT #

STATUS

REG DATE

49

F

09/08/98

ADM COMMENTS:

SPEC #: STATUS: COLL: 09/08/98- RECD: 09/08/98-1450

ORDERED: CME HOLD

COMMENTS: VALPROIC ACID, FLUOXETINE

Test	Result	Flag	Reference
> SPECIMEN TYPE	FLUID, OTHER		
	GASTRIC 200cc		

SPEC #: STATUS: COLL: 09/08/98- RECD: 09/08/98-1450

ORDERED: CME HOLD

COMMENTS: VALPROIC ACID, FLUOXETINE

Test	Result	Flag	Reference
> SPECIMEN TYPE	TISSUE		
	LIVER		

SPEC #: STATUS: COLL: 09/08/98- RECD: 09/08/98-1450

ORDERED: CME HOLD

COMMENTS: VALPROIC ACID, FLUOXETINE

Test	Result	Flag	Reference
> SPECIMEN TYPE	FLUID, OTHER		
	BILE		

H = High L = Low N = Normal # = Delta

** END OF REPORT **

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